

**AMENDMENTS TO THE CLAIMS**

*The listing of claims will replace all prior versions and listings of claims in the application:*

**Listing of Claims:**

1. **(Currently Amended)** An optical coupling system comprising:
  - a post having first and second ends, wherein the post has a height of between about 30 microns and about 250 microns;
  - a microlens situated on the first end of said post; and
  - a window comprising glass and having a first side proximate to said microlens and having a second side.
2. **(Original)** The system of claim 1, wherein:
  - the second end of said post is an input for light; and
  - the second side of said window is an exit for the light.
3. **(Currently Amended)** The system of claim 2, wherein:
  - the exit for the light may be proximate to an optical fiber; and
  - the input may be proximate to a light source.
4. **(Currently Amended)** The system of claim 3, wherein:
  - said post comprises an epoxy material; and
  - said microlens comprises an epoxy material; and

said window comprises glass.

5. **(Currently Amended)** The system of claim 3, wherein the optical fiber is may be single mode fiber.

6. **(Original)** The system of claim 5, wherein the optical fiber is in contact with the second side of said window.

7. **(Original)** The system of claim 5, wherein the optical fiber is at a distance from the second side of said window.

8. **(Currently Amended)** The system of claim 5, wherein the light source is may be a vertical cavity surface emitting laser (VCSEL).

9. **(Original)** The system of claim 5, wherein said post is situated proximate to the light source and on a wafer having the light source.

10. **(Original)** The system of claim 5, wherein said microlens is a spherical lens.

11. **(Original)** The system of claim 10, wherein said microlens is an ink-jet formed lens.

12. **(Original)** The system of claim 5, wherein said microlens is an aspherical lens.

13. **(Currently Amended)** An optical coupling system comprising:  
an array of posts, wherein each post has a height of between about 30 microns and about 250 microns;  
a microlens situated on a first end of each post of said array of posts; and  
a window comprising glass and having a first surface proximate to each microlens of said array of posts.

14. **(Original)** The system of claim 13, wherein:  
each post has a second end proximate to a radiation source; and  
a second surface of said window is proximate to an optical fiber for receipt of radiation from each microlens of said array of posts.

15. **(Original)** The system of claim 13, wherein:  
each post has a second end proximate to a detector; and  
a second surface of said window is proximate to an optical fiber corresponding to each microlens.

16. **(Original)** The system of claim 14, wherein:  
each post comprises an epoxy material; and  
each microlens comprises an epoxy material.

17. **(Canceled)**

18. **(Original)** The system of claim 14, wherein the optical fiber is single mode fiber.
19. **(Original)** The system of claim 18, wherein the radiation source is a VCSEL.
20. **(Original)** The system of claim 18, wherein the optical fiber is spaced at a distance from the second surface of said window.
21. **(Original)** The system of claim 18, wherein the optical fiber is in contact with the second surface of said window.
22. **(Original)** The system of claim 18, wherein each microlens is a spherical lens.
23. **(Original)** The system of claim 18, wherein each microlens is an aspherical lens.
24. **(Original)** The system of claim 23, wherein each microlens is an ink-jet formed lens.

25. **(Currently Amended)** An optical coupling system comprising:

- a substrate having a plurality of optoelectronic elements formed on said substrate;
- a plurality of posts formed over the plurality of optoelectronic elements on said substrate;
- a plurality of lenses formed on said posts;
- a window comprising glass being situated proximate to said plurality of lenses, wherein the window is about 300 microns thick; and
- a plurality of optical fibers proximate to said window.

26. **(Original)** The system of claim 25, wherein the optoelectronic elements are light sources.

27. **(Currently Amended)** An optical coupling system comprising:  
an optoelectronic element;  
a place for an end of an optical medium; and  
a lens situated between said optoelectronic element and place for an end of optical  
medium, wherein the lens has a thickness of between about 20 microns and about 600 microns,  
and  
a substrate comprising glass and having a first side proximate to said lens and having a  
second side.

28. **(Original)** The system of claim 27, wherein said lens is an aspherical lens.

29. **(Original)** The system of claim 28, wherein said medium is an optical fiber.

30. **(Original)** The system of claim 29, wherein said place for an end of an optical  
medium is a fiber stop.

31. **(Original)** The system of claim 30, wherein said aspherical lens comprises a non-  
glass material.

32. **(Original)** The system of claim 31, wherein said optoelectronic element is a detector.

33. **(Original)** The system of claim 31, wherein said optoelectronic element is a light  
source.

34. **(Original)** The system of claim 33, wherein said light source is a vertical cavity surface emitting laser.

35. **(Original)** The system of claim 34, wherein the said aspheric lens comprises a plastic material.

36. **(Original)** The system of claim 35 wherein said optical fiber is single mode optical fiber.

37. **(Currently Amended)** An optical coupling system comprising:  
an optoelectronic element situated about an optical axis;  
an aspherical lens situated about the optical axis, wherein the aspherical lens has a  
thickness of between about 20 microns and about 600 microns; and  
a place for an optical fiber situated about the optical axis, and  
a substrate comprising glass and having a first side proximate to said aspherical lens and  
having a second side.

38. **(Original)** The system of claim 37, wherein said aspherical lens comprises a non-  
glass material.

39. **(Original)** The system of claim 38, wherein said optoelectronic element is a detector.

40. **(Original)** The system of claim 38, wherein said optoelectronic element is a light  
source.

41. **(Original)** The system of claim 40, wherein said optoelectronic element is a vertical  
cavity surface emitting laser.

42. **(Original)** The system of claim 41, wherein said optical fiber is a single mode fiber.

43. – 45. **(Canceled)**